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L23: Entry 5 of 28

File: JPAB

Aug 15, 1995

PUB-NO: JP407215195A

DOCUMENT-IDENTIFIER: JP 07215195 A

TITLE: ANTISKID BRAKE CONTROL DEVICE OF VEHICLE FURNISHED WITH UNIAXIAL, SINGLE

MODULATOR, TWO-WHEEL SPEED SENSOR

PUBN-DATE: August 15, 1995

INVENTOR-INFORMATION:

NAME

COUNTRY

OKADA, KUNIO

ASSIGNEE-INFORMATION:

NAME

COUNTRY

JIDOSHA KIKI CO LTD

APPL-NO: JP06008042

APPL-DATE: January 28, 1994

INT-CL (IPC): B60 T 8/58

ABSTRACT:

PURPOSE: To minimize a braking distance by providing an antiskid brake control map selection means to select a second antiskid brake control map at the time when car body deceleration is larger than a set value.

CONSTITUTION: At the time when car body deceleration is larger than a set value, it can be regarded that a vehicle is under ABS (antiskid brake control) while turning travelling on a high  $\mu$  road. Additionally, in the case when either one of left and right wheel is in a decompression mode and the other is under service brake, the ABS of select low by a second ABS map 24 is carried out, and accordingly, the left and right wheels are ABSed (antiskid brake controlled) so that wheel lock inclination becomes smaller. Consequently, in this case, braking pressure of the inside wheel at the time of turning is decompressed, lock inclination of this inside wheel is restrained, and abrasion of this inside wheel is restrained.

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anti- skid

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L23: Entry 27 of 28

File: DWPI

Dec 19, 1984

DERWENT-ACC-NO: 1984-313986

DERWENT-WEEK: 198451

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TITLE: Four-wheel drive vehicle with electronic differential steering - uses wheel-

speed sensors and control circuit for regulating braking and engine torque

INVENTOR: LIEBER, H

PRIORITY-DATA: 1983DE-3321377 (June 14, 1983)

		Search Selected Sear	ch ALL C	lear	
PATI	ENT-FAMILY:			-	
	PUB-NO	PUB-DATE .	LANGUAGE	PAGES	MAIN-IPC
	EP 128583 A	December 19, 1984	G	013	
	DE 3421776 A	December 20, 1984		000	
	DE 3421776 C2	September 30, 1993		006	B60K023/04
	DE 3475609 G	January 19, 1989		000	
	EP 128583 B	December 14, 1988	G	000	
	<u>US 4589511 A</u>	May 20, 1986	•	000	

INT-CL (IPC): B60K 17/34; B60K 23/04; B60K 23/08; B60K 28/16; B60K 41/20; B60K 41/26; B60T 8/32

ABSTRACTED-PUB-NO: DE 3421776C

BASIC-ABSTRACT:

The vehicle has  $\underline{\text{sensors}}$  to measure the speeds of its  $\underline{\text{wheels}}$ . The  $\underline{\text{sensors}}$  are connected to a circuit that controls a braking pressure controller containing a pressure source so that one of more  $\underline{\text{wheels}}$  is braked when its rotation differs from that of the other  $\underline{\text{wheels}}$ . The control contains a device to produce a reference signal describing vehicle speed from the sensor's outputs.

The reference signal is used to delay any increase in speed under certain conditions. The control is linked to a device that alters engine torque so as to reduce that torque when the last <a href="wheel">wheel</a> has passed through. The control only affects braking and torque up to a given speed.

ABSTRACTED-PUB-NO:

# EP 128583A EQUIVALENT-ABSTRACTS:

A four—wheel drive vehicle has an engine (2) and gearbox (3) whose output to the four wheels (1a to 1d) is distributed via a balancing unit (3a), the transmission shafts (4a,5a) and differential/drive- shafts (4,5).

The wheel speed transmitters (la' to ld') provide continuous monitoring signals to the controller (6) to enable the detection of wheel-slip in any of the wheels (la to 1d).

A valve block (7) in the vehicle tracking system responds to the controller (6) and automatically brakes the required wheel (5) to eradicate slip via the hydraulic conduits (8) and respective wheel cylinder (5). Should all four wheels slip the controller (6) imposes (9) reduced engine torque.

USE/ADVANTAGE - Provides effective alternative to systems operating with limited slip differentials by delaying vehicle re-acceleration until wheel-slip is eradicated. Is readily applicable to systems having antilock braking control.

### EP 128583B

Four-wheel drive vehicle, in which the two wheels of an axle are in each case driven by a differential gear, these two differential gears being connected via drive shafts to a transfer case which is driven by the drive engine, and in which a brake pressure control device including a pressure source is provided, by which spinning wheels can be influenced, characterised in that the wheels (la-ld) are assigned sensors (la'-ld') for monitoring the wheel speed, in that these sensors are connected to a control device (6) and in that the brake pressure control device is then activated by the control device (6) in the sense of a braking of one or . more wheels when this wheel spin or these wheels spin in comparison with the other wheels, and in that there is an operative connection (9) between the control device (6) and a member influencing the engine torque for the purpose of lovering the engine torque when the last of the wheels (1a-1d) also spins. (7pp)

### US 4589511A

The all wheel drive automotive vehicle has an i.c. engine, a transmission, four wheels and a front and rear axle differential. A coupling differential may be coupled to the transmission. A traction control system has a brake unit and speed sensors related to each wheel, with an electronic control unit connected to receive all the individual wheel speed output signals.

If any one, or more, or all the wheel speed sensors provide output signals representative of spinning of a wheel, e.g. by providing output signals representative of a higher speed than other wheels, or higher than a reference indicating that all wheels are spinning - an output signal is generated by the electronic control unit (6).

This controls application of the wheel brake to the respective wheel, thus preventing its spinning.

USE/ADVANTAGE - Prevents wheel spinning and avoids loss of traction.

(8pp)

May 11, 1993

First Hit Fwd Refs Previous Doc Next Doc Go to Doc# **Generate Collection** Print

US-PAT-NO: 5210690

L33: Entry 4 of 5

DOCUMENT-IDENTIFIER: US 5210690 A

TITLE: Anti-skid control system for vehicle

DATE-ISSUED: May 11, 1993

INVENTOR-INFORMATION:

CITY STATE ZIP CODE NAME COUNTRY Kaqeyama; Fumio Hiroshima JΡ

File: USPT

Okazaki; Haruki Hiroshima JΡ Onaka; Toru Hiroshima JΡ Tsuyama; Toshiaki Hiroshima JP

ASSIGNEE-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY TYPE CODE

Hiroshima JΡ Mazda Motor Corporation

APPL-NO: 07/ 682086 [PALM] DATE FILED: April 9, 1991

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY APPL-NO APPL-DATE

JP 2-94656 April 10, 1990

INT-CL: [05] B60T 8/66

US-CL-ISSUED: 364/426,02; 303/109, 303/95 US-CL-CURRENT: 701/76; 303/163/ 303/192

FIELD-OF-SEARCH: 364/426.01, 364/426.02, 364/565, 303/95, 303/96, 303/98, 303/102,

303/109

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected Search ALL Clear

PAT-NO ISSUE-DATE PATENTEE-NAME

> Shimanuki et al. 303/109

US-CL

4991910 February 1991

May 1991 Masaki et al. 364/426.02 5019984

<u>5065327</u>	November 1991	Yahagi et al.	364/426.02
5072393	December 1991	Mori et al.	364/426.02
5092662	March 1992	Okubo	303/106
5123715	June 1992	Okubó ·	303/108
5138556	August 1992	Yoshino	364/426.02

ART-UNIT: 234

PRIMARY-EXAMINER: Black; Thomas G.

ATTY-AGENT-FIRM: Sixbey, Friedman, Leedom & Ferguson

# ABSTRACT:

A first estimated vehicle speed is calculated on the basis of the highest of the speeds of the wheels and the deceleration of the vehicle. A second estimated vehicle speed which begins to reduce from a predetermined value at a predetermined rate independent from the change in the highest of the speeds of the wheels from the time the first estimated vehicle speed falls to the predetermined value is calculated. A slip ratio of each wheel is calculated on the basis of the first estimated vehicle speed when the first estimated vehicle speed is not lower than the predetermined value and on the basis of the second estimated vehicle speed when the first estimated vehicle speed is lower than the predetermined value. The braking force applied to each wheel is controlled so that the slip ratio of the wheel converges on a target slip ratio.

8 Claims, 7 Drawing figures

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L33: Entry 5 of 5

File: USPT

Sep 11, 1990

COUNTRY

US-PAT-NO: 4955448

DOCUMENT-IDENTIFIER: US 4955448 A

TITLE: Controller for reducing acceleration slippage of a driven wheel

DATE-ISSUED: September 11, 1990

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE

Ise; KiyotakaSusonoJPFujita; KozoSusonoJP

ASSIGNEE-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY TYPE CODE

Toyota Jidosha Kabushiki Kaisha JP 03

APPL-NO: 07/ 313453 [PALM]
DATE FILED: February 22, 1989

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY APPL-NO APPL-DATE

JP 63-46364 February 29, 1988

INT-CL: [05] B60K 31/00, B60L 3/10, B60T 8/32

US-CL-ISSUED: 180/197; 303/103, 364/426.02, 364/426.03

US-CL-CURRENT: (180/197): 303/141

FIELD-OF-SEARCH: 180/197, 180/233, 364/426.02, 364/426.03, 361/238, 303/95,

303/100, 303/103

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected Search ALL Clear

PAT-NO ISSUE-DATE PATENTEE-NAME US-CL

☐ <u>3709565</u> January 1973 Jonason et al. 361/238 X

4637487 January 1987 Nakamura et al. 180/197

☐ 4648663 March 1987 Nomura et al. 180/197 X

4682295	July 1987	Kubo	361/238 X
4685547	August 1987	Ohashi et al.	180/197
<u>4722411</u>	February 1988	Ohashi et al.	180/197
<u>4736814</u>	April 1988	Yogo et al.	180/197
4739856	April 1988	Inagaki et al.	364/426.03
4760893	August 1988	Sigi et al.	364/426.02
4766972	August 1988	Takata et al.	180/197
4774667	September 1988	Kuraoka et al.	364/426.02
4805104	February 1989	Kishimoto et al.	180/197 X
4811808	March 1989	Matsumoto et al.	180/197
4823269	April 1989	Fujioka et al.	364/426.03
4824184	April 1989	Spadafora et al.	364/426.02

### FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
3206694	September 1983	DE	
3603765A1	August 1986	DE	
60-128057	July 1985	JP	
61-1543	January 1986	JP .	
61-85248	April 1986	JP	
61-182434	August 1986	JP	
61-283736	December 1986	JP	
62-149545	July 1987	JP	

ART-UNIT: 316

PRIMARY-EXAMINER: Hill; Mitchell J.

ATTY-AGENT-FIRM: Oliff & Berridge

### ABSTRACT:

The acceleration-slippage controller reduces acceleration slippage at a driven wheel of an automobile by adjusting brake force on the driven wheel, and an opening of a throttle valve of the engine. When the brake-force control increases the brake force to reduce the driven-wheel rotation, the moving speed of the throttle valve is corrected toward the closed position. Because the throttle valve control correlates to the brake control, their combined control can quickly reduce the driven-wheel speed to its target without causing hunting of the throttle valve opening.

7 Claims, 20 Drawing figures

# **Hit List**

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Search Results - Record(s) 1 through 5 of 5 returned.

☐ 1. Document ID: US 5878365 A

Using default format because multiple data bases are involved.

L33: Entry 1 of 5

File: USPT

Mar 2, 1999

US-PAT-NO: 5878365

DOCUMENT-IDENTIFIER: US 5878365 A

TITLE: Brake condition detector and vehicle controller using the same

DATE-ISSUED: March 2, 1999

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Onogi; Nobuyoshi JP Nagoya Imoto; Yuzo Chita-gun JP Kamiya; Masahiko Anjo JP Kondo; Masuhiro Obu JP

US-CL-CURRENT: 701/70; 303/146, 303/191, 701/80, 73/146

Full	Title Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draws D
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	2. Docume	ent ID:	US 55	60690 A			٠		
L33	: Entry 2	of 5			File:	USPT	Oct 1	, 199	96

US-PAT-NO: 5560690

DOCUMENT-IDENTIFIER: US 5560690 A

TITLE: Distribution system for selectively controlling and supplying brake pressure to wheels

☐ 3. Document ID: US 5498072 A

L33: Entry 3 of 5

File: USPT

Mar 12, 1996

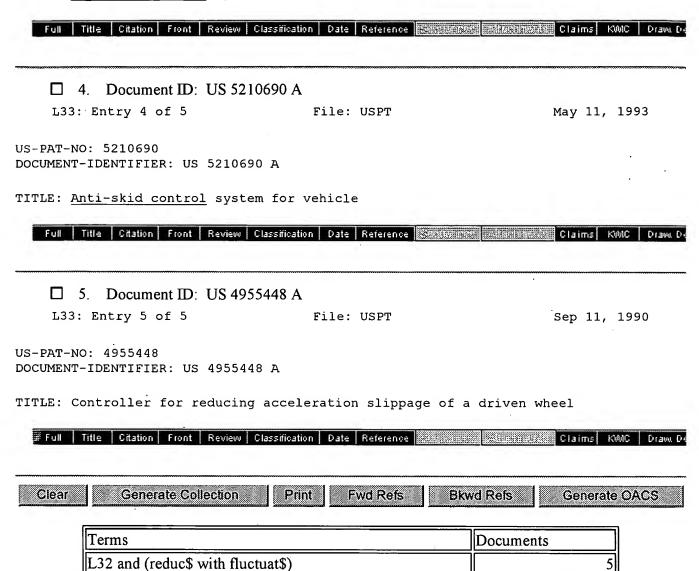
US-PAT-NO: 5498072

DOCUMENT-IDENTIFIER: US 5498072 A

\*\* See image for Certificate of Correction \*\*

Record List Display Page 2 of 2

TITLE: Anti-skid control system for automotive vehicles



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L33: Entry 1 of 5

File: USPT

Mar 2, 1999

US-PAT-NO: 5878365

DOCUMENT-IDENTIFIER: US 5878365 A

TITLE: Brake condition detector and vehicle controller using the same

DATE-ISSUED: March 2, 1999

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Onogi; Nobuyoshi Nagoya JP
Imoto; Yuzo Chita-gun JP
Kamiya; Masahiko Anjo JP
Kondo; Masuhiro Obu JP

ASSIGNEE-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY TYPE CODE.

Nippondenso Co., Ltd. Kariya JP 03

APPL-NO: 08/ 657188 [PALM]
DATE FILED: June 3, 1996

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY APPL-NO

P 7-138068

APPL-DATE
June 5, 1995

INT-CL: [06] <u>B60</u> <u>T</u> <u>17</u>/<u>00</u>, <u>B60</u> <u>T</u> <u>8</u>/<u>00</u>

US-CL-ISSUED: 701/70; 303/191, 303/146, 73/146, 701/80 US-CL-CURRENT: 701/70; 303/146, 303/191, 701/80, 73/146

FIELD-OF-SEARCH: 701/29, 701/70, 701/73, 701/80, 303/150, 303/149, 303/191,

303/194, 303/195, 303/146, 73/146

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

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 PAT-NO
 ISSUE-DATE
 PATENTEE-NAME
 US-CL

 4651290
 March 1987
 Masaki et al.
 364/550

5108159 April 1992 Tsang et al. 303/100

5588721	December 1996	Asano et al.	303/163
5596141	January 1997	Nishikawa et al.	73/146.2
5662393	September 1997	Kamiya et al.	303/194

### FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
2-34456	February 1990	JP	
3-7648	January 1991	JP	
6-27679	April 1994	JP	
7-186927	July 1995	JP	
7-246925	September 1995	JP	

ART-UNIT: 364

PRIMARY-EXAMINER: Zanelli; Michael

ATTY-AGENT-FIRM: Pillsbury Madison Sutro LLP

# ABSTRACT:

Vibration observed in a tire wheel portion exhibits a resonant vibration phenomenon in which vibration fluctuates between a wheel and a surface of a tire. This phenomenon shows different characteristics depending upon how the surface of the tire is in contact with a road surface. Here, a detector derives a parameter corresponding to a gradient of a coefficient of friction based on these characteristics and detects a brake condition. Also, a controller executes ABS control based on such parameter.

38 Claims, 29 Drawing figures

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☐ Generate Collection

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L33: Entry 2 of 5

File: USPT

Oct 1, 1996

US-PAT-NO: 5560690

DOCUMENT-IDENTIFIER: US 5560690 A

TITLE: Distribution system for selectively controlling and supplying brake pressure

to wheels

DATE-ISSUED: October 1, 1996

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY Hattori; Noriaki Anjou JP Tozu; Kenji Kariya JΡ Mihara; Jun Toyoake JP. Itoh; Takayuki Nagoya JΡ Sugiura; Shingo Kariya JP Yamazaki; Norio Kariya JP Inagaki; Sho'ji Susono JP Yamamoto; Masaki Kakeqawa JP

ASSIGNEE-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY TYPE CODE

Aisin Seiki Kabushiki Kaisha Kariya JP 03 Toyota Jidosha Kabushiki Kaisha Toyota JP 03

APPL-NO: 08/ 310729 [PALM]
DATE FILED: September 22, 1994

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY APPL-NO APPL-DATE

JP 5-236033 September 22, 1993 JP 5-237016 September 24, 1993

INT-CL: [06]  $\underline{B60}$   $\underline{T}$   $\underline{8}/\underline{04}$ ,  $\underline{B60}$   $\underline{T}$   $\underline{8}/\underline{60}$ 

US-CL-ISSUED: 303/116.2; 303/146 US-CL-CURRENT: 303/116.2; 303/146

FIELD-OF-SEARCH: 303/91, 303/95, 303/100, 303/111, 303/114.1, 303/113.1, 303/116.2,

303/146

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Clear

Search ALL

PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
4758053	July 1988	Yasuno	303/111
4881785	November 1989	Ushijima et al.	303/111
<u>4887869</u>	December 1989	Nishii et al.	303/114.1
<u>4898431</u>	February 1990	Karnopp et al.	
4989925	February 1991	Kohno	303/116.2
4998593	March 1991	Karnopp et al.	
<u>5112115</u>	May 1992	Willmann et al.	303/114.1
5207483	May 1993	Shimada et al.	303/111
<u>5211453</u>	May 1993	Van Zanten et al.	303/111
5224765	July 1993	Matsuda	303/111
<u>5267783</u>	December 1993	Inoue et al.	303/111
5333944	August 1994	Shirai et al.	303/116.2
5385393	January 1995	Tanaka et al.	303/111

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### FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE .	COUNTRY	US-CL
3616907	November 1987	DE	
4185562	July 1992	JP	
4287754	October 1992	JP	

ART-UNIT: 313

PRIMARY-EXAMINER: Graham; Matthew C.

ATTY-AGENT-FIRM: Sughrue, Mion, Zinn, Macpeak & Seas

### ABSTRACT:

A <u>brake</u> force distribution <u>control</u> system comprising wheel speed sensing means S1, S3 which detect wheel speeds VWFR, VWRR of a front right wheel FR and a rear right wheel RR respectively, standard speed calculating means M1 calculating <u>first</u> speed value B and <u>second</u> speed value C from each of the wheel speeds VWFR, VWRR, and figuring out front medium value of VWFR, B and C and rear medium value of VWFR, B and C as standard wheel speeds VWSFR, VWSRR respectively, comparison means M2 calculating a difference between the standard wheel speeds VWSRR and VWSFR and driving means M3 operating a <u>pressure control</u> valve unit FV depending on the differences so as to modulate <u>brake</u> force of the rear right wheel RR relative to that of the front right wheel FR.

10 Claims, 23 Drawing figures

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L33: Entry 3 of 5

File: USPT

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Mar 12, 1996

US-PAT-NO: 5498072

DOCUMENT-IDENTIFIER: US 5498072 A

\*\* See image for Certificate of Correction \*\*

TITLE: Anti-skid control system for automotive vehicles

DATE-ISSUED: March 12, 1996

INVENTOR-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY

Shimizu; Kouichi Sagamihara JP

ASSIGNEE-INFORMATION:

NAME CITY STATE ZIP CODE COUNTRY TYPE CODE

Nissan Motor. Co., Ltd. Kanagawa JP 03

APPL-NO: 08/ 447586 [PALM]
DATE FILED: May 23, 1996

FOREIGN-APPL-PRIORITY-DATA:

COUNTRY APPL-NO APPL-DATE

JP 6-109957 May 24, 1994

INT-CL: [06] <u>B60</u> <u>T</u> <u>8/58</u>

US-CL-ISSUED: 303/191; 303/DIG.7 US-CL-CURRENT: 303/191; 303/DIG.7

FIELD-OF-SEARCH: 303/191, 303/163, 303/DIG.7, 364/426.02

PRIOR-ART-DISCLOSED:

U.S. PATENT DOCUMENTS

Search Selected Search ALL Clear

PAT-NO ISSUE-DATE PATENTEE-NAME US-CL

<u>4545623</u> October 1985 Sato et al. 303/DIG.7 X

5015042 May 1991 Yoshino 303/170

5200897 April 1993 Makino et al. 303/DIG.7 X

FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	US-CL
2-169362	June 1990	JP	
3-67764	March 1991	JP	
4-27650	January 1992	JP	

ART-UNIT: 313

PRIMARY-EXAMINER: Ballato; Josie

ATTY-AGENT-FIRM: Lowe, Price, Leblanc & Becker

## ABSTRACT:

An automobile anti-skid brake control system, comprises wheel-speed sensors, a pseudo vehicle speed generator, an arithmetic circuit for calculating a slip ratio of each road wheel, and a controller for controlling a wheel-brake cylinder pressure of each road wheel. The controller includes a compensation circuit for compensating a different-diameter wheel speed of a different-diameter road wheel with a small-sized emergency tire, utilizing an error rate of the differentdiameter wheel speed with respect to the detected wheel speed of the other road wheel with a usual tire. The error rate is derived on the basis of a ratio of diameter-difference between the different-diameter road wheel and the other road wheel. The ratio of diameter-difference is derived on the basis of a maximum wheel speed corresponding to the different-diameter wheel speed and a second highest wheel speed of the detected wheel speeds. The controller controls each wheel-brake cylinder pressure so that the slip ratio derived from a compensated pseudo vehicle speed based on the compensated different-diameter wheel speed is adjusted to a predetermined reference slip ratio.

9 Claims, 13 Drawing figures

- equal to a reference value while the antiskid control is being executed on one of the right-side wheel and the left-side wheel, the first controller determines that the road surface friction coefficients corresponding to the right-side wheel and the left-
- coefficients corresponding to the right-side wheel and the leftside wheel are different from each other.
- 8. The vehicular antiskid control apparatus according to claim
  1, wherein the right-side wheel and the left-side wheel are front
  wheels of the vehicle.
  - 9. A vehicular antiskid control method by comprising:
    determining whether road surface friction coefficients
    corresponding to a right-side wheel and a left-side wheel are
- reducing a fluctuation in the brake pressure of a higher-friction coefficient road surface side wheel, of the right-side wheel and the left-side wheel, caused by execution of the antiskid control
- on that wheel if it is determined that road surface friction coefficients corresponding to the right-side wheel and the left-side wheel are different from each other.

((((SPEC/antiskid AND SPEC/"high friction") AND SPEC/"low friction") AND SPEC/"left wheel") AND SPEC/"right wheel"): 8 patents.

Hits 1 through 8 out of 8

Jump To

SPEC/antiskid AND SPEC/"high friction" AND

PAT.

Title

- → 1 6,792,343 Antiskid braking control system
  - 2 6,474,751 THydraulic circuit having a rotary type pump and brake apparatus for a vehicle provided with the same
  - 3 6,142,581 Hydraulic circuit having a rotary type pump and brake apparatus for a vehicle provided with the same
  - 4 5,978,726 Driving torque control method and apparatus for a four-wheel drive vehicle
  - 5 5,481,455 T System for detecting hydroplaning of vehicle
  - 6 5,016,178 T Brake pressure control apparatus
  - 7 5,001,640 T Servo control system
  - 8 4,093,317 Vehicle antiskid brake control system having means for adjusting a non-sensed wheel brake pressure relative to a sensed wheel brake pressure